

Title (en)

METHOD FOR GASIFYING CARBONACEOUS COMPOUNDS

Title (de)

VERFAHREN ZUR VERGASUNG VON KOHLENSTOFFHALTIGEN MATERIALIEN

Title (fr)

PROCEDE DE GAZEIFICATION DE COMPOSES CARBONES

Publication

**EP 1235889 A1 20020904 (FR)**

Application

**EP 00985382 A 20001201**

Priority

- FR 0003360 W 20001201
- FR 9915246 A 19991203

Abstract (en)

[origin: US7087098B2] The invention relates to a method of gasifying carbon-containing compounds incorporating mineral elements and/or potential contaminants, and it also relates to a gasification installation having means for containing a bath of molten slag, means for charging said compounds into said bath, means for injecting at least oxidizer into the bath so that the mixture of carbon-containing compounds and oxidizer is super-stoichiometric, whereby a first fraction of the compounds is pyrolyzed, a second fraction is subjected to a combustion reaction suitable for delivering heat energy to the bath of slag, and a third fraction diffuses into the bath, means for recovering the gas given off by the pyrolysis and the combustion of the first and second fractions, and means for lowering the temperature of a portion of the molten slag so as to allow it to solidify, thereby immobilizing at least a portion of the third fraction of the compounds containing mineral elements and/or potential contaminants.

IPC 1-7

**C10J 3/57**

IPC 8 full level

**C10J 3/57** (2006.01)

CPC (source: EP US)

**C10J 3/57** (2013.01 - EP US); **C10K 1/04** (2013.01 - EP US); **C10K 1/10** (2013.01 - EP US); **C10J 2200/158** (2013.01 - EP US); **C10J 2300/165** (2013.01 - EP US); **C10J 2300/1884** (2013.01 - EP US)

Cited by

FR3045423A1; FR3025732A1; CN107073532A; US11596988B2; WO2017103523A1; WO2016042249A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0140411 A1 20010607**; AT E499430 T1 20110315; AU 2181801 A 20010612; CA 2393088 A1 20010607; CA 2393088 C 20100330; DE 60045662 D1 20110407; DK 1235889 T3 20110614; EP 1235889 A1 20020904; EP 1235889 B1 20110223; ES 2364123 T3 20110825; FR 2801895 A1 20010608; FR 2801895 B1 20020301; PT 1235889 E 20110601; US 2003056438 A1 20030327; US 7087098 B2 20060808

DOCDB simple family (application)

**FR 0003360 W 20001201**; AT 00985382 T 20001201; AU 2181801 A 20001201; CA 2393088 A 20001201; DE 60045662 T 20001201; DK 00985382 T 20001201; EP 00985382 A 20001201; ES 00985382 T 20001201; FR 9915246 A 19991203; PT 00985382 T 20001201; US 14875302 A 20020911